

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: Tue Nov 13 12:13:45 EST 2007

=====

Application No: 10509708 Version No: 2.0

Input Set:

Output Set:

Started: 2007-10-26 16:58:05.289
Finished: 2007-10-26 16:58:05.662
Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 373 ms
Total Warnings: 2
Total Errors: 0
No. of SeqIDs Defined: 2
Actual SeqID Count: 2

Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (1)
W 402	Undefined organism found in <213> in SEQ ID (2)

SEQUENCE LISTING

<110> Collins, Desmond Michael

<120> IMPROVEMENTS IN AND RELATING TO A METHOD OF DNA TESTING FOR MYCOBACTERIUM PARATUBERCULOSIS STRAINS

<130> JAMES68.001APC

<140> 10509708

<141> 2005-09-09

<150> PCT/NZ03/00119

<151> 2003-06-10

<160> 2

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 342

<212> DNA

<213> Mycobacterium paratuberculosis

<400> 1

```
gcttgacaac gtcattgaga atcccccttgc tacttagctg acctatctac aggctgggtc 60
agcataatcg cagcgctcgga caaggcgtgg aggaatcgcg tcgcgactta tgcaactcct 120
tcaaaaccgg cgtcgcgccg ccgtgtgaaa cgcagggtcaa tccgcaccgg gatggtgatc 180
ggttcaagtc gtccgaccat gggcggttgg ggacccggac actcgagaca tcacccttag 240
ctgatatcag ctttagctga tatcatgceg tagtgcgga atgggaggtt gacctgactc 300
tcacgaagc ctggatggat gccctcaatg acgttgtcaa gc 342
```

<210> 2

<211> 2306

<212> DNA

<213> Mycobacterium paratuberculosis

<400> 2

```
ttgaagttgc cgaaggtgcg aatcgagccg tcggtgtcga aggcgacggt gtcgatcttg 60
gtgtgcgcca ggcgaggaa ctgctcgatg aggccagct cgtccatgat ccgcagcgtg 120
gtcggatgca cgggtgtcgcc gcggaagtcg cgcaggaagt cgttgtgctt ttccaagacg 180
acgaccggga ttccggcccg ggcgagcagc agcgcggtgca ccatcccggc gggaccgccc 240
ccggcaacgc acacctgagt ccggtactat tgcgaggct acctcccggt tccaaccact 300
aggccgtcca acctcgacgg ccgctacaga gctacacgag ccccgcccga gaacatcgag 360
tcatggaact ctatcgcttc cggcaccgcg cccggcgagg tgctgaacga gacgctcca 420
tccataccga ggccagggtt gatgtcttcc atccaggtgt tgctcgctgag cgaggtcgtc 480
gcgctcaaaact tcttgccgtc gatgatcagt ttttggttgg aagcagagaa gctttgggac 540
ttgtcgccga tgttcgtcac gcggagcttc acgacgaaaa actcgccctt ggcttgcgtc 600
aaactgaaga ccccttccct agtgcccgag cgatcgacac caagcacttg aaactcgaac 660
ttaccgtctc gcaccgggga cccagcgggg gcgacggcag gccctacatg ctttggtctc 720
gtcggcgcgc ttgcccttga ggggaccgac gctgccgtgt tcgactccgc gacggtcttc 780
ttgtcgccgt cgttgccgcc gctggcgatg gcaatcagga ccaccactac ggctccggcg 840
cctaggatcc acttcttacc ggacttcttc tggcggttgg gcttcacggg ctggccaacg 900
ccgggtggcg gcgcgggaaa tggcgcataa ctttcggtcc acgctgtgcc gtcgaagtac 960
```

cgctggcggc	tcggattaga	tggatcgga	taccaaccgc	ctgttggtg	cgatcatgaag	1020
tccccttgct	acttagctga	cctatctaca	ggctgggtca	gcataaccgc	agcgctcgac	1080
aaggcggtga	ggaatcgct	cgcgacttat	gcaactcctt	caaaaccggc	gtcgcgccgc	1140
cgtgtgaaac	gcaggatcaat	cgcacccggg	atggtgatcg	gttcaagtcg	tccgaccatg	1200
ggcgggttggg	gacccggaca	ctcgagacat	cacccttagc	tgatatcatg	cggtagtgcg	1260
gaaatgggag	gttgacctga	ctctcatcga	agcctggatg	gatgccctcg	atgacgagga	1320
gtacgacaac	ttgatagcag	cgtctgagca	gttgaggaga	cacggtccaa	ttaccggcg	1380
gccgtttgtg	gacacccttg	aagggtcaag	gcaccggaac	atgaaggagc	tccgtccgcg	1440
ccccacgaaa	gctggagccc	acattcgct	gctattcgcc	ttcgataccc	ggtcgcgggc	1500
gatcatgttg	atcgctggag	acaaggcggg	caattgggtc	aagtgggatg	ccaagcacat	1560
tcccattgcc	gacgagctct	tcgatgctca	ccaaaagcgt	ttacacaagg	cagcagccaa	1620
agccaccaat	cggaaaccaa	ggaaggga	gaaacgatga	ccaatcttga	tgacatgcgc	1680
cgtcgccgtc	ccggcaaccg	gaccctgac	gacgcgatca	aggcggagat	ggaccgcgag	1740
gttgcccagt	accgtctccg	cgaactgcgc	gaggctgccg	gctacacgca	gacgactctc	1800
gctgcggcta	ttggcgctcg	gcagaaccgc	gtctcgaga	tggaacatgg	cgatctgggc	1860
acgagccggg	tcgacactct	ccgcaagtac	gtggaagcga	ctgggggtga	gctggaagtg	1920
tccgtcaagc	gtccggacgg	gtcacgggtt	ctcctcagcc	tgtaaagcgc	gacgaccgag	1980
accagggcg	aaggcttcga	gaacggtgtc	caggtaaccg	ctgcggcttg	tgattctcgg	2040
gtgccctcgg	cgtcagaag	cagtogaatg	acggggccat	cgatacagaa	tcgacggaga	2100
accgaagcag	tacaacagat	ctcgtcgac	atcggcctca	actcgatcgc	ggcacagatc	2160
aggtaaccgt	attcgcgac	gtcgccaaga	ccgactccga	tgcaacacga	tcaccgtct	2220
agcacggcta	gagtcacctg	tcggactgtc	gcgcgaccgc	tgtcgtccac	cgaagacgac	2280
gaggacacca	cggcgaagta	ccacc				2306